

## EAST Search History

S49	1	("5305386").PN.	USPAT; USOCR	OR	OFF	2006/02/15 14:01
S50	18	"5305386"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:02
S51	19	("4329544"   "4622691"   "4856064"   "4866776"   "4953219"   "4980914"   "5040219").PN. OR ("5305386").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:06
S52	9	"5278909"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:07
S53	15	("3789144"   "4485483"   "4486076"   "4680796"   "4769841"   "4815132"   "4825305").PN. OR ("5278909").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:10
S54	3	"5128999"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:11
S55	4	("4696036"   "4799260").PN. OR ("5128999").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:52
S56	10	"5812674"	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:53
S57	19	("4332979"   "4638506"   "4817149"   "5105462"   "5142586"   "5212733"   "5384854"   "5467401"   "5555306"   "5636283").PN. OR ("5812674").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 15:00
S58	833	((381/86).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:12
S59	192567	bass or subwoofer or woofer or low adj frequency	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:20
S60	1853	delay\$4 same distance same attenuat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:35

## EAST Search History

S61	98	delay\$4 same distance same attenuat\$4 same audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:37
S62	4	S59 and S61 and @ay<="1999"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:07
S63	4965	delay\$4 and distance and attenuat\$4 and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:38
S64	59	haas adj effect	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:06
S65	157	haas adj effect or (first adj wave adj front)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:06
S66	28	S59 and S65 and @ay<="1999"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:07
S67	154	((381/86).ccls.) and S59 and @ay<="1999"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:42
S68	220	((381/17-21).ccls.) and S59 and @ay<="1999"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:43

## EAST Search History

S69	199	((381/17-19).ccls.) and S59 and @ay<="1999"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 16:43
S70	192832	(bass or subwoofer\$1 or sub adj woofer\$1 or woofer\$1) or low adj frequency	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:22
S71	1104	((381/17-21).ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:23
S72	222	((381/17-21).ccls.) and S70 and @ay<="1999"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:24
S73	26	"4574391"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 12:40
S74	28	("3761631"   "3772479"   "3982071"   "4281833"   "4464781").PN. OR ("4574391").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/16 12:43

## EAST Search History

S31	0	("ep-642292-\$.did.").PN.	USPAT; USOCR; EPO	OR	OFF	2004/12/18 14:34
S32	7	"642292"	USPAT; EPO	OR	OFF	2004/12/18 14:43
S33	9	hoellermann.inv.	USPAT; EPO	OR	OFF	2004/12/18 14:43
S34	89	((381/18).cccls.) and (amplif\$4 and delay\$3)	USPAT; EPO	OR	OFF	2004/12/18 15:08
S35	1	("6584202").PN.	USPAT; USOCR; EPO	OR	OFF	2004/12/20 11:32
S36	3669	(distance space) with (speaker loudspeaker tweeter)	USPAT; EPO	OR	OFF	2004/12/20 11:34
S37	0	(distance space) with (speaker loudspeaker tweeter) same dilay\$4	USPAT; EPO	OR	OFF	2004/12/20 11:34
S38	0	(distance space) with (speaker loudspeaker tweeter) same dilay	USPAT; EPO	OR	OFF	2004/12/20 11:34
S39	192	(distance space) with (speaker loudspeaker tweeter) same delay	USPAT; EPO	OR	OFF	2004/12/20 11:35
S40	84	(distance space) with (speaker loudspeaker tweeter) same delay same (amplitude attenat\$4 multipl\$8 gain level magnitude amplif\$8)	USPAT; EPO	OR	OFF	2004/12/20 12:11
S41	1	("6584202").PN.	USPAT; EPO	OR	OFF	2004/12/20 12:11
S42	7	"642292"	USPAT; EPO	OR	OFF	2004/12/20.16:34
S43	3	"6584202"	USPAT	OR	ON	2005/07/29 11:02
S44	86	hass adj effect or first adj wave adj front	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/29 11:03
S45	48	hass adj effect or first adj wave adj front and @ay<="2000"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/29 11:13
S46	15	hass adj effect or first adj wave adj front and @ay<="2000"	JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 13:52
S47	1	("6332026").PN.	USPAT; USOCR; EPO	OR	OFF	2005/07/29 13:36
S48	1	("4251688").PN.	USPAT; USOCR	OR	OFF	2006/02/15 14:00

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	50	((("4866776") or ("6222930") or ("6222930") or ("5241605") or ("4953219") or ("4891839") or ("4303800") or ("5546465") or ("4882753") or ("5381482") or ("5844993") or ("4837825") or ("5579396") or ("5761315") or ("5784468") or ("5177798") or ("5557680") or ("5604810") or ("5708719") or ("6144747") or ("5412732") or ("5799094") or ("5930370") or ("6002775") or ("6009179") or ("6118876") or ("6385320") or ("4998283") or ("5912976") or ("4326099") or ("4856065") or ("5285503") or ("5504820") or ("5710394") or ("5768394") or ("5910990") or ("6449368") or ("4418243") or ("5572591") or ("5278909") or ("5896358") or ("6016295") or ("5581621") or ("5872851") or ("5740253") or ("3796840") or ("4953213") or ("5657391") or ("6236730") or ("5610986"))).PN.	USPAT; USOCR; EPO	OR	OFF	2006/02/16 12:40
S2	1	("4866776").PN.	USPAT; USOCR; EPO	OR	OFF	2003/09/18 11:36
S3	929	((381/86)".ccls")	USPAT; EPO	OR	OFF	2006/02/15 15:31
S4	428	((381/86)".ccls") and (amplifier)	USPAT; EPO	OR	OFF	2003/09/18 11:37
S5	133	((381/86)".ccls") and (amplifier and delay)	USPAT; EPO	OR	OFF	2003/09/29 13:06
S6	28	((381/86)".ccls") and (amplifier and delay and equalizer)	USPAT; EPO	OR	OFF	2003/09/18 12:27
S7	14	((381/86)".ccls") and (amplifier and delay and matrix)	USPAT; EPO	OR	OFF	2003/09/18 12:27
S8	1	("5850453").PN.	USPAT; USOCR; EPO	OR	OFF	2003/09/18 12:41
S9	1	("5305386").PN.	USPAT; USOCR; EPO	OR	OFF	2003/09/29 12:15
S10	11	"5305386".uref.	USPAT; EPO	OR	OFF	2003/09/29 12:16